

Rec'd

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## INTERNATIONAL SEARCH REPORT

International Application No.  
PCT/EP 03/10293

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12P23/00 C12M1/36 //(C12P23/00,C12R1:645)

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12P C12N C12M C12R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, FSTA, EMBASE, BIOSIS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 015 684 A (JOLLY SETSUKO OMATA ET AL) 18 January 2000 (2000-01-18) cited in the application the whole document --- -/--	1-10

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

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\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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\*A\* document member of the same patent family

Date of the actual completion of the international search

18 March 2004

Date of mailing of the international search report

31/03/2004

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International Application No  
PCT/EP 03/10293

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	YAMANE YU-ICHI ET AL: "Influence of oxygen and glucose on primary metabolism and astaxanthin production by Phaffia rhodozyma in batch and fed-batch cultures: Kinetic and stoichiometric analysis" APPLIED AND ENVIRONMENTAL MICROBIOLOGY, vol. 63, no. 11, November 1997 (1997-11), pages 4471-4478, XP002274005 ISSN: 0099-2240 abstract page 4472, column 1, paragraph 6 - paragraph 8 page 4475, column 1, paragraph 2 -page 4476, column 2, paragraph 1; figure 4	1,3,5,8
X	WO 88 08025 A (DANISCO BIOTEKNOLOGI AS) 20 October 1988 (1988-10-20) the whole document	1,5
A	HO K P ET AL: "Growth and carotenoid production of Phaffia rhodozyma in fed-batch cultures with different feeding methods" BIOTECHNOLOGY LETTERS, vol. 21, no. 2, February 1999 (1999-02), pages 175-178, XP008028052 ISSN: 0141-5492 the whole document	1
A	FELL J W ET AL: "Separation of strains of the yeasts Xanthophyllomyces dendrorhous and Phaffia rhodozyma based on rDNA IGS and ITS sequence analysis" JOURNAL OF INDUSTRIAL MICROBIOLOGY AND BIOTECHNOLOGY, vol. 23, no. 1, July 1999 (1999-07), pages 677-681, XP002274006 ISSN: 1367-5435 table 1	10

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